



Agilent Sulfur Chemiluminescence Detector and Nitrogen Chemiluminescence Detector

Selection Guide

STEP 1: Determine the detector type, NCD for nitrogen and SCD for sulfur

The NCD and SCD models are available in analogous configurations, for example each is available in dry and oil-filled pump configurations. One voltage and one mounting option must be chosen.

STEP 2: Choose a pump

The customer will usually have a predetermined preference. The dry pump has the advantage of generally less maintenance and no oil to change. A drawback of the dry pump is a 30% loss in sensitivity. In many applications, this loss in sensitivity is unacceptable. If a customer is uncertain about pump choice, recommend the oil-filled pump as it will produce the best sensitivity and it is mechanically more reliable.

STEP 3: Determine the local line voltage

The SCD and NCD are available in 100, 115 and 230 VAC options. Option #100 corresponds to 100 VAC, option #115 corresponds to 115 VAC and option #230 corresponds to the 230 VAC model.

STEP 4: Choose the fast amp option for comprehensive 2D GC or "high speed" applications

The Factory Fast Amp option #400 allows for signal data acquisition rates up to 100 Hz vs. 5 to 10 Hz for the normal amplifier.

STEP 5: For Agilent GCs, choose the Agilent Burner Mount

Recommend option #500 or 502, DP Burner 6850/6890 or 7890 FID Mounting Kit, when the burner is to be mounted in series with an FID. Recommend option #501 or 503, DP Burner 6850/6890 or 7890 Mounting Kit, when the column is to be connected directly to the burner.

Note that the Agilent 6890/7890 GC allows for two detectors and the Agilent 6850 GC allows for one detector. If the FID Adapter is used, it is possible to add one more detector—provided that a 35900E controller and sufficient heated zones are available.

STEP 6: Choose option #508 or #509 for the analog input board

If an Agilent 6850 or 6890 is used, order Option #509 for the Analog Input Board and cable. If an Agilent 7890 is used, order Option #508 for the Analog Input board and cable. The cable connects the signal output of the detector to the analog input board, which becomes an Agilent signal. An analog input board is not needed if either an external data system, such as EZChrom, or a 35900E Controller is used.

Note: When connecting the NCD or SCD to the 6890 or 7890 order the AIB as option #509 or #508. If you order the AIB as an option to the GC, you will not have the correct cable.

STEP 7: Choose other burner mount options

The SCD and NCD are designed primarily for installation on Agilent GCs, however they can be installed on a few other GCs. If the detector is to be installed on another brand of GC, choose option #510, no mounting kit, order G6606A and then select the appropriate option choice (#301 to #312). Note that some of these options are voltage-specific; therefore it may be necessary to obtain the voltage of the GC to which the detector will be installed. These mounting option kits will contain an appropriate signal cable. Note that Thermo and Varian GCs have analog input boards for data systems by these manufacturers. It will be necessary for the customer to supply these boards as required.



Ordering Information

G6600A – Model 255 NCD Dual Plasma System with Dry Pump

(You must select one voltage option and one mounting option)

- #100 – 100 V
- #115 – 115 V
- #230 – 230 V
- #400 – Factory Fast Amp Option, NCD/SCD
- #500 – DP Burner 6850/6890 FID Mounting Kit
- #501 – DP Burner 6850/6890 Mounting Kit
- #502 – DP Burner 7890 FID Mounting Kit
- #503 – DP Burner 7890 Mounting Kit
- #508 – Analog Input Board for 7890
- #509 – Analog Input Board for 6850/90 GCs
- #510 – No Mounting Kit, Signal cable only

G6601A – Model 255 NCD Dual Plasma System with Oil Pump

(You must select one voltage option and one mounting option)

- #100 – 100 V
- #115 – 115 V
- #230 – 230 V
- #400 – Factory Fast Amp Option, NCD/SCD
- #500 – DP Burner 6850/6890 FID Mounting Kit
- #501 – DP Burner 6850/6890 Mounting Kit
- #502 – DP Burner 7890 FID Mounting Kit
- #503 – DP Burner 7890 Mounting Kit
- #508 – Analog Input Board for 7890
- #509 – Analog Input Board for 6850/90 GCs
- #510 – No Mounting Kit, Signal cable only

G6602A – Model 355 SCD Dual Plasma System with Dry Pump

(You must select one voltage option and one mounting option)

- #100 – 100 V
- #115 – 115 V
- #230 – 230 V
- #400 – Factory Fast Amp Option, NCD/SCD
- #500 – DP Burner 6850/6890 FID Mounting Kit
- #501 – DP Burner 6850/6890 Mounting Kit
- #502 – DP Burner 7890 FID Mounting Kit
- #503 – DP Burner 7890 Mounting Kit
- #508 – Analog Input Board for 7890
- #509 – Analog Input Board for 6850/90 GCs
- #510 – No Mounting Kit, Signal cable only

G6603A – Model 355 SCD Dual Plasma System with Oil Pump

(You must select one voltage option and one mounting option)

- #100 – 100 V
- #115 – 115 V
- #230 – 230 V
- #400 – Factory Fast Amp Option, NCD/SCD
- #500 – DP Burner 6850/6890 FID Mounting Kit
- #501 – DP Burner 6850/6890 Mounting Kit
- #502 – DP Burner 7890 FID Mounting Kit
- #503 – DP Burner 7890 Mounting Kit
- #508 – Analog Input Board for 7890
- #509 – Analog Input Board for 6850/90
- #510 – No Mounting Kit, Signal cable only

G6604A – NCD Dual Plasma Upgrade

- #115 – 115 V
- #230 – 230 V
- #500 – DP Burner 6850/6890 FID Mounting Kit
- #501 – DP Burner 6850/6890 Mounting Kit
- #502 – DP Burner 7890 FID Mounting Kit
- #503 – DP Burner 7890 Mounting Kit
- #510 – No Mounting Kit, no Signal cable

G6605A – SCD Dual Plasma Upgrade

- #115 – 115 V
- #230 – 230 V
- #500 – DP Burner 6850/6890 FID Mounting Kit
- #501 – DP Burner 6850/6890 Mounting Kit
- #502 – DP Burner 7890 FID Mounting Kit
- #503 – DP Burner 7890 Mounting Kit
- #510 – No Mounting Kit, no Signal cable

G6606A – SCD / NCD Mounting Kits

- #301 – DP Burner Mount Varian CP 3800 230V
- #302 – DP Burner Mount Shimadzu 2014
- #303 – DP Burner 6850/6890 FID Mounting Kit
- #304 – DP Burner 6850/6890 Mounting Kit
- #305 – DP Burner FID Adapter Varian 110 V
- #306 – DP Burner Mount FID Trace 230 V
- #307 – DP Burner Mount Varian CP 3800 110 V
- #308 – DP Burner Perkin Elmer Mounting Kit
- #309 – DP Burner Thermo Trace Mounting Kit
- #310 – DP FID Adapter PE Clarus 500
- #311 – DP Burner Adapter Varian 230 V
- #502 – DP Burner 7890 FID Mounting Kit
- #503 – DP Burner 7890 Mounting Kit

Information, descriptions and specifications in this publication are subject to change without notice.

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